

### Triangles : Worksheet -1

1. Two \_\_\_\_\_ are not always similar.
2. If  $AB : ZY = BC : YX$  then  $\triangle ABC$  is similar to \_\_\_\_\_
3. In  $\triangle ABC \sim \triangle PQR$  ; if  $m \angle A = 50^\circ$ ,  $\angle Q + \angle R =$  \_\_\_\_\_
4. In  $\triangle ABC$ ,  $b^2 = a^2 + c^2$ , then \_\_\_\_\_ is a right angle.
5. In  $\triangle ABC$ , the sides are 6 cm, 10 cm and 8cm. Then  $\triangle ABC$  is  
\_\_\_\_\_triangle
6. Two circles with equal radii are \_\_\_\_\_
7. The angles of a triangle are in the ratio 1 : 1 : 2. The sides are in the  
ratio is \_\_\_\_\_
8. In  $\triangle ABC$ ,  $\angle A = 90^\circ$  then  $a^2 =$  \_\_\_\_\_
9. In  $\triangle ABC$ , a line parallel to  $BC$  meets  $AB$  in  $D$  and  $AC$  in  $E$ . If the  
areas of  $\triangle ADE$  and  $\triangle ABC$  are in the ratio 4 : 25, then  $\frac{AD}{DB} =$  \_\_\_\_\_
10. The ratio of corresponding altitudes of two similar triangles is 3 : 4.  
The ratio of their areas is \_\_\_\_\_

